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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,052	11/22/2006	Kimihiro Mabuchi	19461-004US1 547267	2047
7590 9905/2010 FISH & RICHARDSON P.C. P.O. BOX 1022			EXAMINER	
			BASS, DIRK R	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			1797	
			NOTIFICATION DATE	DELIVERY MODE
			09/03/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

Application No. Applicant(s) 10/582.052 MABUCHI ET AL. Office Action Summary Examiner Art Unit DIRK BASS 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 15 July 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) 8-16 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7, 17 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information-Displaceure-Statement(e) (FTO/SS/08)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Applicant's response filed July 15, 2010 is acknowledged. Claim 1 is amended, claims 8-16 are withdrawn from consideration, and claim 17 is newly added. Claims 1-7 and 17 are pending and further considered on the merits.

Response to Amendment

In response to the amendment, the examiner maintains the rejections set forth in the office action dated May 3, 2010.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-7 and 17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Saruhashi et al., JP 2000-254222 (Saruhashi).
- 3. Regarding claims 1, 5-7, and 17, Saruhashi discloses polysulfone based hollow fiber membranes for blood dialysis (¶ 0001) comprising 25% by mass of polyvinyl pyrrolidone on an outer surface of said membrane (¶ 0010-0012), wherein polyvinyl pyrrolidone is crosslinked so as to be insoluble in water (¶0019). See MPEP 2112.
- 4. Regarding the limitations describing the amount of eluted hydrophilic polymer and the test performed in claim 1 (see "characterized in that..."), while the prior art is silent regarding such limitations the examiner considers such limitations inherently fulfilled by the prior art since the substance and structure of the prior art anticipates the substance and structure of claim 1, absent evidence to the contrary. See MPEP 2112.
- 5. Regarding claims 2-3, while the prior art is silent regarding such limitations the examiner considers limitations such as sticking and porosity inherently fulfilled by the prior art since the substance and structure of the prior art anticipates the substance and structure of claim 1, absent evidence to the contrary. See MPEP 2112.

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6. Regarding claim 4, Saruhashi discloses a hollow fiber membrane bundle wherein the mass ratio of hydrophilic polymer to polysulfone based resin is 1-20% (¶ 0020).

Response to Arguments

- Applicant's arguments filed July 15, 2010 have been fully considered but they are not persuasive.
- 8. In response to applicant's argument that Saruhashi does not disclose a hollow fiber membrane comprising a content of hydrophilic polymer on the outer surface between 25-50%, the examiner maintains that the disclosure relied upon in the rejections above fulfill this limitation. For further clarification, the examiner is providing the DERWENT abstract of the Saruhashi reference, which states that "the ratio of the hydrophilic and the hydrophobic polymer in the outer surface of the membrane is 5-25%" (abstract).

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIRK BASS whose telephone number is (571) 270-7370. The examiner can normally be reached on Mon - Fri (9am-4pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on (571) 272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Krishnan S Menon/ Primary Examiner, Art Unit 1797

/DRB/ Dirk R. Bass